EAGLE® ICS

INTERACTIVE CONTROL SYSTEM

Programming of Unicard CR211

1. Introduction

The Unicard can accommodate up to 98 cards with two relays with one voltage free contact each. On the pluggable terminal you find inputs for 2 exit buttons, 1 door switch, card group disabling, code disabling and event logging. The door switch can be used to control the door release and local door monitor. Unicard can be configured to operate using card & PIN, card only or group code. When delivered the card reader it is normally configured to work with card only. Unicard has an optional printer pack for printing system data (specify PP2/KB1/LU802). Unicard also has a keypad tamper lockout which occurs after 12 incorrect key depressions, this being released after 30 seconds or the entry a valid code twice.

In addition the Unicard has a lid tamper device which could actuate an optional monitored alarm (reference SK5/E7).

NB If the tamper device is to output to a monitored intruder alarm, please check compliance to relevant Police Force policy.

If the optional logging unit LU-802 is mounted, you can print out stored events. By using an optional external timer, you can control what times of the day the events should be logged in the memory.

Unicard has four LED's. The green LED indicates relay 1. The yellow LED indicates key depression and also requests the PIN-code (when the unit is set to card & PIN). The first red LED indicates access denied and the second one is free for external control via inputs on PL4: 11,12.

NB There is a 560Ω resistor in series with the second red LED, this value is suitable for 12VDC supply. If you are to use 24VDC cut the S3 jumper in the unit.

2. Initialisation & Password

After installation the Unicard has to be initialised with a special code. This code pre-sets printer parameters, clears the memory and sets the opening times to 7 seconds. The code is 199201.

Initialisation & Memory Reset

- Open the card reader
- Press **RST** button on the circuit board — *Wait for 4 bleep confirmation*
- Enter **199201**
- Press # — *Wait for 8 bleep confirmation, the memory is now cleared and language is set to English.*

NB If the print out is printed in a language other than English, an incorrect initialisation code has been entered. Repeat the above instructions.

To allow the reader to be programmed and to initiate the printouts a six digit password is required.

Set Password

- Open the card reader
- Press **RST** button on the circuit board — *Wait for 4 bleep confirmation*
- Enter a **6-digit code**
- The following codes are not permitted: 00 00 00, 19 92 00 – 19 92 99
- Press # — *Wait for 2 short and one long confirmation bleep*
- Ensure that you record the number entered
- Press ***
- Close the card lock

3. Programming of Cards

Unicard has the capacity to store 98 cards and PIN codes and one password code. The cards are stored at fixed addresses (101 to 198).

You should make a log of which cards are stored at which address (a sheet is enclosed at the end of these instructions). Each card could be combined with one of the following **relay functions** :-

< 1 > - Relay 1 monostable (timed)	**< 5 > - Relay 2 bistable (latching)**
< 2 > - Relay 2 monostable (timed)	**< 6 > - Relay 1 and relay 2 bistable**
< 3 > - Relay 1 and relay 2 monostable	**< 7 > - Relay 1 if relay 2 is activated**
< 4 > - Relay 1 bistable (latching)	**< 8 > - Alarm function**

Relay 1 : is normally used to open the door.

Relay 2 : could be used for different functions :-

Alarm shunt, alarm panel on/off, duress alarm, open a second door, manipulation blocking alarm, control a electronic lock / strike or a door bell. Monostable relay function is normally used for door opening, alarm shunt, duress alarm, door open alarm and blocking alarm while bistable relay function is used for alarm on/off, and door open during the day.

If the duress output is connected to a monitored intruder alarm, please check compliance to relevant Police Force policy.

Alarm function 8 : Controls the relationship and operation of relays 1 & 2.

The **disable functions** are:

< 0 > - No time control
< 1 > - Card disabled if PL2:19 PL2:20 is **open circuit**.
< 2 > - Card disabled if PL2:19 PL2:20 is **closed circuit**.

User cards are programmed as follows :-

Individual Cards

Enter your **password**	*You will hear a beep every second*
Press # and **the address for the first card**	*The first location is 101, you will hear a double bleep*
Swipe **the card** or enter 8 digit decimal number	*You will hear a double bleep*
Press #	*You will hear a double bleep*
Enter a **relay function**	*Relay functions are 1-8, you will hear a double bleep*
Enter a **disable function**	*Disable functions are 0, 1 or 2, you will hear 2 short and one long bleep.* *The card is now stored in the memory and the card reader returns to programming mode.*
Press *****	*The card lock returns to working mode*

Block Programming of Cards

NB This function is only appropriate if you have numerically sequential cards.

Enter your **password**	*You will hear a beep every second*
Press # and **the address for the first card**	*The first code is 101, you will hear a double bleep*
Swipe **the card** or enter 8 digit decimal number	*You will hear a double bleep*
Enter the **total number** of cards in the series (XX)	*You will hear a double bleep*
Enter a **relay function**	*Relay functions are 1-8, you will hear a double bleep*
Enter a **disable function**	*Disable functions are 0, 1 or 2, you will hear 2 short and one long bleep.* *The cards are now stored in the memory and the card reader returns to programming mode.*
Press *****	*The card lock returns to working mode*

NB This will assign all cards in the series the same relay & disable functions.

Example 1: Program a card in address 101 which controls relay 1 monostable (1) and that should not be time controlled (0).

Enter your **Password**	
Press # **101**	
Swipe **the card** or enter 8 digit decimal number	*You will hear a double bleep*
Press #	*You will hear a double bleep*
Press **1 0**	*Relay & disable functions*
Press *****	*The card lock returns to working mode*

Simplified Programming

This can be used when the reader is required to operate on ‘card only’ and has relay 1 & no disable functions.

Example 2:

- Enter your **Password**
- Press # **102**
- Swipe **the card** or enter 8 digit decimal number — *You will hear a double bleep*
- Press # #
- Press ***** — *The card lock returns to working mode*

If you enter more cards you only have to press * when the programming is finished, and not after each card. * also works as "break" during programming.

- Enter your **Password**
- Press # **102**
- Swipe **the card** or enter 8 digit decimal number — *You will hear a double bleep*
- Press # #
- Press # **103**
- Swipe **the card** or enter 8 digit decimal number — *You will hear a double bleep*
- Press # #
- Press ***** — *The card lock returns to working mode*

The programmed cards and their function could be checked using the print out function # **82**.

- Connect **Printer via Interface**
- Enter your **Password**
- Press # **82** *Printout starts*
- If you want to terminate the print, press #

4. Substitute Cards

If you want to substitute one card with another without changing the functions of the card, this can be done as follows :-

- Enter your **Password**
- Press # **card location** *Card location is 101 – 198*
- Swipe **replacement card** or enter 8 digit decimal number
- Press # #
- Press ***** *The card lock returns to working mode*

5. Cancel Cards

If you want to cancel a card proceed as follows :-

- Enter your **Password**
- Press # **card location** # *Card location is 101 – 198*
- Press # #
- Press ***** *The card lock returns to working mode*

6. Programming of Group Code

Unicard has one group code. To enter the group code proceed as follows :-

Enter your **Password**	
Press # **41**	*You will hear a double bleep*
Enter the **required four digit group code**	*You will hear a double bleep*
Enter a **relay function**	*Relay functions are 1-7, you will hear a double bleep*
Press *****	*The card lock returns to working mode*

NB The Unicard does not record events for the low security group code configuration.

NB If a code is included in the six digit password, e.g. if your password is 123456, and an 1234 is a door code, the door will open on 1234 and the card reader will enter programming mode after 6.

7. Programming of Relay Time

The programme the relay time, proceed as follows :-

NB The relay time can be configured in either seconds or minutes.

Enter time for **relay 1** in seconds (opening time)**.**

Enter your **Password**	
Press # **51 X**	*X = opening time enter 01 – 99*
Press *****	*The card lock returns to working mode*

Enter time for **relay 2**.

- Enter your **Password**
- Press # **53 X** — *X = opening time enter 01 – 99*
- Press ***** — *The card lock returns to working mode*

Enter time for **relay 1** in minutes**.**

- Enter your **Password**
- Press # **52 X** — *X = opening time enter 01 – 99*
- Press ***** — *The card lock returns to working mode*

Enter time for **relay 2**.

- Enter your **Password**
- Press # **54 X** — *X = opening time enter 01 – 99*
- Press ***** — *The card lock returns to working mode*

8. Logging Unit LU-802 (Optional)

An optional logging unit **LU-802** is available. This unit contains a clock which keeps record of date and time. It also has an extended memory to be able to store events. An on-line print-out takes place if a printer is connected. The 102 last events are always stored in the memory, and could be printed when ever wanted. The print-out shows the address of the card (e.g. #105) and date (day & month) and time. If you have chosen **bistable** function on one of the relays, **activation** of the relay is marked with a + after the card address and **deactivation** with a - .

Example: #105+ 27/08 11:31
#105- 27/08 15:22

NB Note: To get the logging working you need a jumper in PL2:15,16. When the log is enabled the group code is disabled. This creates the highest level of security.

9. Set Date & Time (LU-802 Only)

As mentioned above, the year is not included in the print out. However the Unicard must know when the next leap-year occurs (expressed in the number of years from the present).

The year is entered with a digit:

0 = 1996, 2000, 2004 etc.
1 = 1997, 2001, 2005 etc.
2 = 1998, 2002, 2006 etc.
3 = 1999, 2003, 2007 etc.

To set the time, please proceed as follows :-

Enter your **Password**	*You will hear a bleep every second*
Press # **199**	*You will hear a double bleep*
Enter the **date**	*Format DDMM*
Enter the **time**	*Format HHMM*
Enter **year type**	*0, 1, 2 or 3 (see above), you will hear a double bleep.*
Press #	*You will hear two short and one long bleep*
Press *****	*The card lock returns to working mode*

Example: **#199 3108 0958 0** # means 31st August 9:58am 1996/2000/2004

10. Enter Card Reader Number

If you have more than one Unicard installed in the same installation, the printer outputs can be connected in parallel to one printer. To enable identification of the source of the event (which reader) an address can be given to each card reader. Please proceed as follows :-

Enter your **Password**	
Press # **44**	*You will hear a double bleep*
Enter the **ID Number**	*Select two digit number (01,02, 03 etc), you will hear a double bleep.*
Press *****	*The card lock returns to working mode*

11. Printouts

Unicard has the ability to print out it's cards and their functions. Please proceed as follows :-

- Connect **Printer via Interface**
- Enter your **Password**
- Press # **82** *System data is printed*

NB If you want to terminate the print, press #

When the LU-802 installed, it is possible to print out the last 102 events.

To print out these events, proceed as follows :-

- Connect **Printer via Interface**
- Enter your **Password**
- Press # **85** *The last 102 events are printed*

NB If you want to terminate the print, press #

12. Programming of PIN Code (New Code)

In order to make it easier for the user and also to increase the level of security, the user can select his own personal code to be used in conjunction with the magnetic card.
This code (PIN-code) is programmed as follows :-

Press #	*The red LED illuminates*
Swipe **the card**	
Enter **0000**	
Enter **required 4 digit PIN code**	
Re-enter **required 4 digit PIN code**	
Press #	*The PIN code is stored in the memory of the card reader and the reader returns to working mode.*

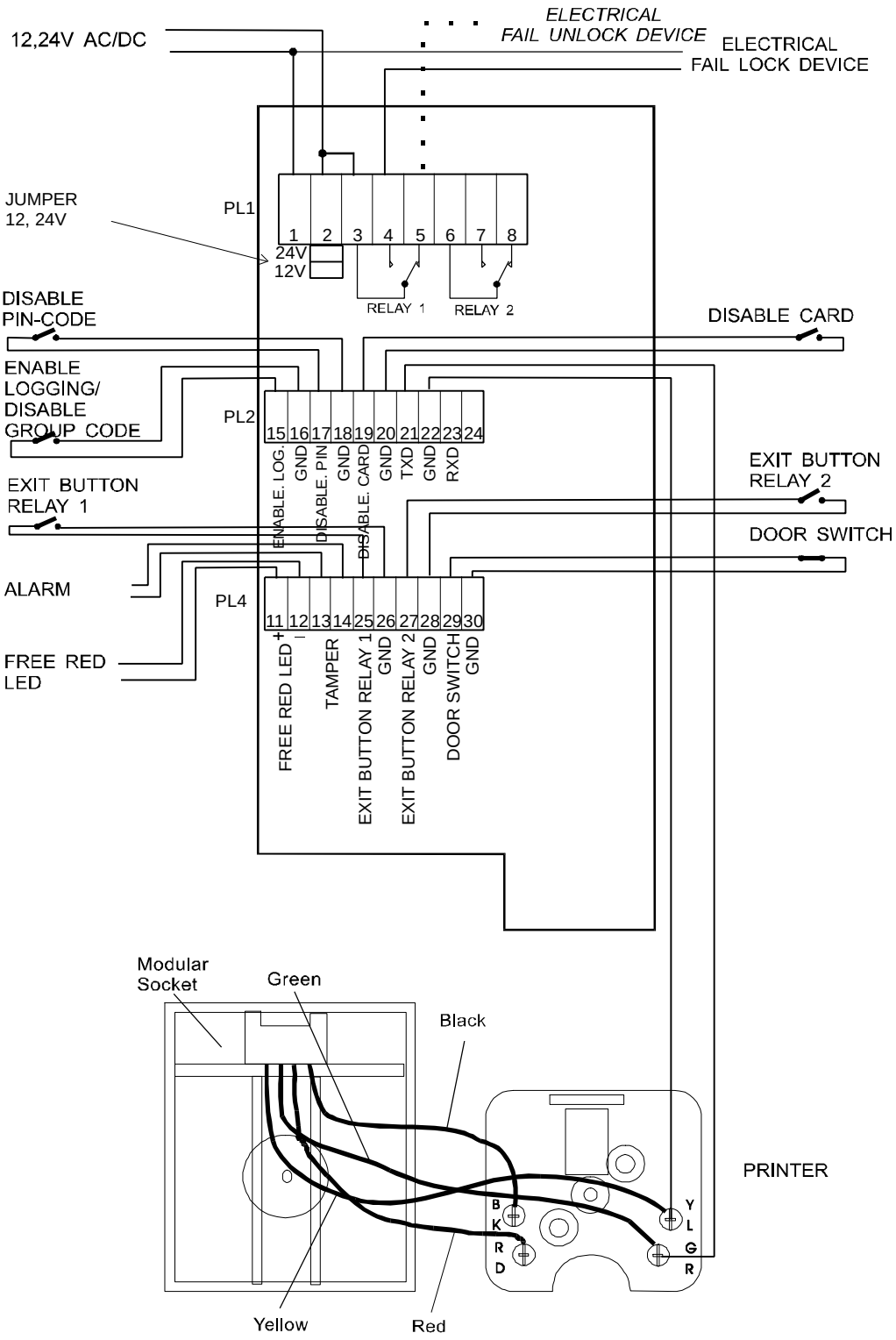
13. Programming of PIN Code (Changing Existing Code)

To change an existing PIN-code proceed as follows :-

Press #	*The red LED illuminates*
Swipe **the card**	
Enter **existing PIN code**	
Enter **required 4 digit PIN code**	
Re-enter **required 4 digit PIN code**	
Press #	*The PIN code is stored in the memory of the card reader and the reader returns to working mode.*

NB If you have more than one Unicard installed in the same installation, the programming function will need to be repeated for each reader.

Wiring Diagram ICS Unicard CR-211



Card list for Eagle ® ICS CR211

NAME OF DOOR

PAGE ___ OF ___

ENTER CARDS ISSUED

NAME	USER NUMBER	CARD NUMBER	OUTPUT FUNCTIONS	DATE

Example of Completion
John Jackson | 56 | 98765411 | 1 0 | 99-01-02

Disclaimer : *Every attempt has been made to ensure that the information provided in this manual is accurate and complete. However, neither Ingersoll Rand Locking Systems or it's distributor can be held responsible for loss or losses made as a result of using this manual or the system.*

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